

How To Guide

SUBJECT:

Recommended programing settings for **TBS E-xpert Pro Battery Monitor used** with Tesla 5.3 kWh modules

NUMBER: HTG-22-001 Rev2

December, 2022 DATE:

E-xpert Pro PRODUCT: **Battery Monitor** 

## PURPOSE

Certain default settings will need changed to give accurate information of your battery system.

## AFFECTED PRODUCTS

E-xpert Pro Battery Monitor Similar tbs electronics models may be affected.

## PROCEDURE

The E-xpert Pro requires two additional components to work in high voltage systems. A prescaler is used to reduce the HV voltage by a factor of 1:5 that is safe for the gauge. A replacement shunt rated for 600A and 50mV will need to be installed. (the shunt included with the E-xpert Pro will NOT be used) The simplest wiring diagram to follow is included in the prescaler.



## FUNCTION SETUP MENU

Since the gauge is wired directly to the battery, set up can be done with the key on or off. Also note display readout is always on but uses very little energy. The backlight can be changed, we use AU which will only illuminate with activity.





voltage prescaler is almost at the end of a long list. This setting MUST be done FIRST to give you the correct values for some other settings. This will give you a feel for how to make changes as they will all be similar. Enter program then do this step first. (1X) Scroll to (1X) F 6.5 1 - 5Press the 🔍 38 times to get to

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to save.

NOTE

Some settings you will need to know the total number of modules in your system. It does not matter if they are split between the front and back of the vehicle.

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MENU

Push and hold

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